

***CORYNEBACTERIUM GLUTAMICUM* GENES ENCODING NOVEL  
PROTEINS**

**Abstract of the Disclosure**

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Isolated nucleic acid molecules, designated MCP nucleic acid molecules, which  
encode novel MCP proteins from *Corynebacterium glutamicum* are described. The  
invention also provides antisense nucleic acid molecules, recombinant expression  
vectors containing MCP nucleic acid molecules, and host cells into which the expression  
10 vectors have been introduced. The invention still further provides isolated MCP  
proteins, mutated MCP proteins, fusion proteins, antigenic peptides and methods for the  
improvement of production of a desired compound from *C. glutamicum* based on  
genetic engineering of MCP genes in this organism.